# TSCA NON-CONFIDENTIAL BUSINESS INFORMATION

CAIR 90 89 0000 240 6-13-89

EDMMENTS:

DOES NOT CONTAIN CBI



Form Approved
OMB No. 2010-0019
Approval Expires 12-31-89

EPA-OTS

90-890000240

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Comprehensive Assessment Information Rule
REPORTING FORM

When completed, send this form to:	For Agency Use Only:
Document Processing Center Office of Toxic Substances, TS-790	Date of Receipt:
U.S. Environmental Protection Agency	Document
401 M Street, SW	Control Number:
Washington, DC 20460	
Attention: CAIR Reporting Office	Docket Number:

(, ۱ 	1	SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	Α (	GENERAL REPORTING INFORMATION
1.01	Th	is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	COI	npleted in response to the <u>Federal Register Notice of [1]2</u> [2]2 [8]9] mo. day year
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]2]6]4]7]1]-[6]2]-[5]$
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule NA
		CAS No. of chemical substance
1.02		ntify your reporting status under CAIR by circling the appropriate response(s).
CBI		ufacturer 1
[_]		orter 2
		cessor
	X/P	manufacturer reporting for customer who is a processor 4
	X/P	processor reporting for customer who is a processor
 {}	 Mark	(X) this box if you attach a continuation sheet.

1.03			ubstance you a ve-listed <u>Fede</u>	TOT MCB13	icer word	rce:						
[_]	Yes	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	••••••	• • • • • • • •	•••••	(	<u> </u>	Go to	questi	ion 1.04
			•••••••	• • • • • • • •	••••••	• • • • • • •	•••••	(	[_]	Go to	questi	ion 1.05
1.04	a.		manufacture, trade name(s the appropria	\ \ \ru \ru \ru \ru \ru \ru \ru \ru \ru	ut than	s the l that li	isted s	substar the <u>F</u>	ce an edera	d dist	tribute ister N	e it Notice?
CBI		Yes	••••••									
[_]			•••••									
	b.		he appropriate									
		[_] Y	ou have choser	n to noti	fy your	custome	rs of t	heir r	eport	ing ot	oligați	ons -'
			rovide the tra					·				
		[_] Y	ou have choser	n to repo	rt for y	our cus	tomers					
			ou have subminate of the ruleporting.	tted the le in the	trade na <u>Federal</u>	me(s) to Regist	o EPA o er Noti	ne day ce und	afte ler.vh	r the ich yo	effect ou are	tive
1.05 CBI	If y	ou buy a	a trade name pequirements by	roduct a	nd are r ade name	eporting supplie	g becau er, pro	se you	vere hat t	notif	ied of	your
			• • • • • • • • • • • • • • • • • • • •									
Is the trade name product a mixture? Circle the appropriate response.							nea		<del></del>			
	Yes	•••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • •	• • • • • • • •						$\overline{C}$
	No .	••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • • •	•••••		• • • • • • •	• • • • •	• • • • • •	•••••	2
06 CBI	Cert	ification the cer	on The pers	on who is	s respon	sible fo	or the	comple	tion	of thi	s form	n must
	"I h ente	ereby ce	ertify that, this form is c	o the bes	st of my and accu	knovled	ige and	belie	f, al	l info	rmatio	on
			ld L. Laskey			Kou	LL	listu	<del>\</del> _		ine 6,	
	M	anager			( <u>505</u>	) 884	_ 1	057		٠.	ATE SI	GNED
			TITLE		· <u></u> ,		HONE N	957 <b>0</b> .				
_] н	ark	(X) this	box if you a	ttach a c	ontinua	tion she	et.					

1.07 <u>CBI</u> [_]	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.			
	"I hereby certify that, to the binformation which I have not into EPA within the past 3 years a period specified in the rule."	cluded in	this CAIR Reporting For	m has been submitted
	NA			
	NAME	·	SIGNATURE	DATE SIGNED
		( )	_	•
	TITLE	·	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
<u>CBI</u>	"My company has taken measures and it will continue to take th been, reasonably ascertainable using legitimate means (other tajudicial or quasi-judicial prinformation is not publicly ava would cause substantial harm to	to protect ese measur by other p han discov oceeding) ilable els	the confidentiality of es; the information is ersons (other than govery based on a showing without my company's cewhere; and disclosure	not, and has not ernment bodies) by of special need in onsent; the of the information
	NAME		SIGNATURE	DATE SIGNED
	TITLE		TELEPHONE NO.	
[_]	Hark (X) this box if you attach	a continu	ation sheet.	

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name [G]0]0]D]Y]E]A]R]
	$ \begin{array}{c c} \hline (A) \hline \\ \hline \end{array} \\ \hline \end{array} \\ \hline \begin{array}{c c} \hline \\ \hline \end{array} \\ \hline \end{array} \\ \hline \begin{array}{c c} \hline \\ \hline \end{array} \\ \hline \\ \hline \\ \hline \end{array} \\ \hline \begin{array}{c c} \hline \\ \hline \end{array} \\ \hline \\ \hline \\ \hline \\ \hline \end{array} \\ \hline \begin{array}{c c} \hline \\ \hline \\ \hline \end{array} \\ \hline \\ \hline \\ \hline \\ \hline \end{array} \\ \hline \begin{array}{c c} \hline \\ \hline $
	Dun & Bradstreet Number       [0]0]-[4]4 p ]-[7]9]2]4]         EPA ID Number       [3]4]0]2]5]3]2]4]0         Employer ID Number       [3]4]0]2]5]3]2]4]0         Primary Standard Industrial Classification (SIC) Code       [5]0]1]4]         Other SIC Code       []]]]]         Other SIC Code       []]]]]]
1.10	Company Headquarters Identification
CBI	Name $[T]h]e]$ $[G]o]o]d]y]e]a]r]$ $[T]i]r]e]&[R]u]b]b]e]r]$
[_]	Address [1]1]4]4] [E]a]s]t] [M]a]r]k]e]t] [Street
	(A k r o n   - - - - - - - - - - - - - - - - -
	Dun & Bradstreet Number
	Employer ID Number
	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
<u>CBI</u>	Name [T]h e]  G o o d y e a r   T i r e & R u b b e r]  C   Address [1]1 4 4   E a s t   M a r k e t   S t r e e t
	$\left[\frac{\overline{O}}{\overline{S}}\right]\frac{\overline{H}}{\overline{S}}$ $\left[\frac{\overline{4}}{\overline{4}}\right]\frac{\overline{4}}{\overline{3}}$ $\left[\frac{\overline{6}}{\overline{5}}\right]$ $\left[\frac{\overline{O}}{\overline{O}}\right]\frac{\overline{O}}{\overline{1}}$
	Dun & Bradstreet Number
1.12	Technical Contact
	Name [C] M] Pipkin] Jpkin] Jplin Jpl
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$\begin{bmatrix} \overline{N} \end{bmatrix}_{\underline{M}} \begin{bmatrix} \overline{N} \end{bmatrix}_{$
	Telephone Number $(5 \ 0 \ 5 \ 0 \ 5 \ 0 \ 5 \ 0 \ 5 \ 0 \ 5 \ 0 \ 0$
1.13	This reporting year is from $\{ \overline{0} \} \overline{1} \} \{ \overline{8} \} \overline{8} \}$ to $\{ \overline{1} \} \overline{2} \} \{ \overline{8} \} \overline{8} $ Mo. $\{ \overline{1} \} \overline{2} \} \{ \overline{8} \} \overline{8} $
[-]	Hark (X) this box if you attach a continuation sheet

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
	NA NA
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	(_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1
	[_]_] [_]_][_]_]_] State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
	·—·—··································
1.15	NA Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]
	[_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1
	[_]_] [_]_]_]_][_]_]_]_] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
	· · · · · · · · · · · · · · · · · · ·
[_1	Mark (X) this box if you attach a continuation sheet.

. 16 ., <u>31</u>	For each classification listed below, state the quantity of the listed substance that was manufactured, imported, or processed at your facility during the reporting year.			
1	Classification	Quantity (kg/yr		
	Manufactured			
	Imported	0.0		
	Processed (include quantity repackaged)	. 163.53		
	Of that quantity manufactured or imported, report that quantity:			
	In storage at the beginning of the reporting year	. n/a		
	For on-site use or processing			
	For direct commercial distribution (including export)			
	In storage at the end of the reporting year			
	Of that quantity processed, report that quantity:			
	In storage at the beginning of the reporting year	. 44.16		
	Processed as a reactant (chemical producer)			
	Processed as a formulation component (mixture producer)			
	Processed as an article component (article producer)			
	Repackaged (including export)	0.0		
	In storage at the end of the reporting year			

[ ] Mark (X) this box if you attach a continuation sheet.

٠, ٠

1.17	Mixture If the listed substance on which you are required to report is a mixture or a component of a mixture, provide the following information for each component chemical. (If the mixture composition is variable, report an average percentage of each component chemical for all formulations.)					
( <u> </u>			Average % Composition by Weight			
	Component Name	Supplier Name	(specify precision, e.g., 45% ± 0.5%)			
	TDI Prepolymer	ARNCO	40 ± 5.0			
	Petroleum Hydrocarbon	ARNCO	55 ± 5.0			
	Toluene Diisocyanate	ARNCO	4.0 + 0.5			
			·-			
			Total 100%			

[ ] Mark (X) this box if you attach a continuation sheet.	

2.04	State the quantity of the listed substance that your facility manufactors, or processed during the 3 corporate fiscal years preceding the report descending order.	factured, imported, orting year in
CBI		
1_1	Year ending	( <u>1</u> ) <u>2</u>   ( <u>8</u> ) <u>7</u>
	Quantity manufactured	9.0 kg
	Quantity imported	<i>0.0</i> kg
	Quantity processed	<i>163.53</i> kg
	Year ending	[1]2] [8]6]
	Quantity manufactured	0.0. kg
	Quantity imported	0.0 kg
	Quantity processed	<i>160.23</i> kg
	Year ending	[1]2] [8]5] Mo. Year
	Quantity manufactured	0.0 kg
	Quantity imported	
	Quantity processed	353,28 kg
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle all
<u> </u>	NA	
( <u> </u>	Continuous process	1
	Semicontinuous process	
	Batch process	
	·	
1-1	Mark (X) this box if you attach a continuation sheet.	
<u>''</u>		
	12	

2.06 CBI	Specify the manner in sappropriate process type	which you processed to	he listed substance.	Circle all
[_]	Continuous process	•••••	••••••	1
	Semicontinuous process			
	Batch process			
2.07 <u>CBI</u>	State your facility's r substance. (If you are question.)	name-plate capacity for a batch manufacture	or manufacturing or p r or batch processor,	processing the listed , do not answer this
[_]		NA	·	
	Manufacturing capacity	••••••	· · · · · · · · · · · · · · · · · · ·	kg/yr
	Processing capacity	••••••••		kg/yr
2.08 CBI	If you intend to increa manufactured, imported, year, estimate the increase volume.	ease or decrease base		
t1		Manufacturing Quantity (kg)	Importing Quantity (kg)	ProcessingQuantity (kg)
	Amount of increase	NIA	. N/A	N/A
	Amount of decrease	N/A	N/A	N/A
		a de la companya de		
			•	
	·			
	,			
	·			
		•		
_1	Mark (X) this box if yo	u attach a continuati	on sheet.	

. 2.09,	listed substanc substance durin	argest volume manufacturing or processing procese, specify the number of days you manufactured of the reporting year. Also specify the average s type was operated. (If only one or two operates	or processed number of h	the listed
CBI				
[_]			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
	,	Manufactured	N/A	
	·	Processed	N/A 60	4
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		•
	·	Manufactured	-	-
		Processed	N/A	
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured		
		Processed	NA	
2.10 <u>CBI</u> []	State the maxim substance that chemical.  Maximum daily i		y of the is	sted f a bulk kg
				•
[_]	Mark (X) this b	ox if you attach a continuation sheet.		

NA NA		Byproduct, Coproduct	Concentration (%) (specify ±	Source of products, products,
CAS No.	Chemical Name	or Impurity	% precision)	_Impuritie
	<del> </del>		-	<del></del>
		-		
B = Byproduc C = Coproduc	t	e byproduct, copro	oduct, or impurit	 y:
B = Byproduc	t t	e byproduct, copre	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:

	a. Product Types <sup>1</sup>	b. % of Quantity Manufactured, Imported, or Processed		c. % of Quantity Used Captively On-Site	d. Type of End-Users <sup>2</sup>
	x	100	_	100	I, CM
•			- -		•
·,			· <u>-</u>		'
•			· <u>-</u>		
	B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antivear ier esive and additives	N = 0 = P = Q = R = S = U = V = V = X =	Photographic/Repand additives Electrodeposition Fuel and fuel action Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological mode Other (specify)	cals and additives chemicals chemicals chemicals districted additives additives ifier
	<sup>2</sup> Use the folloving code I = Industrial	s to designate the t CS = Consi			

2.13	import, or process using corporate fiscal year. import, or process for	ng the listed substa For each use, spec each use as a perce	nce ify ntag	at any time after the quantity you e of the total vo	your current expect to manufacture, lume of listed
<u>CBI</u>	substance used during tused captively on-site types of end-users for explanation and an exam	as a percentage of each product type.	the	value listed unde	er column b., and the
	a.	b.		с.	d.
	Product Types <sup>1</sup>	% of Quantity Manufactured, Imported, or Processed	_	% of Quantity Used Captively On-Site	Type of End-Users <sup>2</sup>
	x	100		100	I, CM
			-		•
			_		
			_ 		
	<pre>1 Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator</pre>	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antiwear ier	L = M = N = O = P = R = V = V = X = type	Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Repand additives Electrodeposition Fuel and fuel actions control Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological modition ther (specify) of end-users:	cals and additives chemicals ol chemicals ol chemicals ds and additives additives
[_]	Mark (X) this box if yo	u attach a continua	tion	sheet.	

a.	<b>b</b> .	c. Average %	d.
		Composition of	
Product Type <sup>1</sup>	Final Product's Physical Form <sup>2</sup>	Listed Substance	Type of
		in Final Product	End-Users
X	Н	< 0.01	I, CM
			•
<sup>1</sup> Use the following of	codes to designate pro	oduct types:	
A = Solvent		L = Moldable/Castable	e/Rubber and add:
B = Synthetic react	ant	M = Plasticizer	
C = Catalyst/Initia	itor/Accelerator/	N = Dye/Pigment/Color	rant/Ink and addi
Sensitizer	3.	<pre>0 = Photographic/Rep:</pre>	rographic chemica
D = Inhibitor/Stabi	.lizer/Scavenger/	and additives	
Antioxidant		P = Electrodeposition	n/Plating chemic:
E = Analytical reag	ent	Q = Fuel and fuel add	ditives
F = Chelator/Coagu	.ant/Sequestrant	R = Explosive chemica	als and additive
G = Cleanser/Deterg	ent/Degreaser	S - Fragrance/Flavor	chemicals
<pre>H = Lubricant/Frict</pre>	ion modifier/Antiwear	T = Pollution control	l chemicals
agent		U = Functional fluid	s and additives
I = Surfactant/Emu]	sifier	V = Metal alloy and	additives
J = Flame retardant		V = Rheological modi:	fior
<pre>K = Coating/Binder/</pre>	Adhesive and additive	es X = Other (specify)	Article-Flat pro
		final product's physic	
A = Gas		stalline solid	COL LUIM.
B = Liquid	F3 = Gra		•
C = Aqueous solution		er solid	
D = Paste	G = Ge1		
E = Slurry		er (specify) <u>Article</u>	
F1 = Powder		- /-L VALUTGIE	
	odes to designate the	type of end-users:	
I = Industrial	CS = Con		
CM = Commercial		er (specify)	
		· · · · · · · · · · · · · · · · · · ·	

2.15 CBI,	Circ.	le all applicable modes of transportation used to deliver ed substance to off-site customers.	bulk shipments of	the
[_]	Truck	· · · · · · · · · · · · · · · · · · ·		(1)
	Railo	ear		
		e, Vessel		
		line		
		· · · · · · · · · · · · · · · · · · ·		
		(specify)		_
		,	·	•• 0
2.16 <u>CBI</u> []	of en	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for used use listed (i-iv).	e used by your cust use under each cate	omers gory
		gory of End Use		
	i.	Industrial Products		
		Chemical or mixture		kg/yr
•		Article	147.17	kg/yr
	ii.	Commercial Products		
		Chemical or mixture		kg/yr
		Article	16.36	kg/yr
	iii.	Consumer Products		
		Chemical or mixture	•	kg/yr
		Article		kg/yr
	iv.	<u>Other</u>		
		Distribution (excluding export)		kg/yr
		Export		
		Quantity of substance consumed as reactant		_
		Unknown customer uses		
		,		
		•		

# SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

3.01 <u>CBI</u> [_]	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.		
	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.	·	• ,
	The listed substance was purchased directly from a manufacturer or importer.		
	The listed substance was purchased from a distributor or repackager.		
٠	The listed substance was purchased from a mixture producer.	163.53	8.00
3.02 CBI [_]	Circle all applicable modes of transportation used to your facility.  Truck  Railcar  Barge, Vessel		(1
	Pipeline		
	Plane Other (specify)	••••••	5

'3.03 'a. CBI	Circle all applicable containers used to transport the listed substance to your facility.
[_]	Bags
	Boxes
	Free standing tank cylinders
	Tank rail cars
	Hopper cars
	Tank trucks
	Hopper trucks
	Drums
	<b>7</b>
	Other (specify)
b.	Other (specify)  If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
	Tank cylinders
	mml-
	Tank rail cars
	Tank rail cars mmH
	Tank rail cars
	Tank rail cars mmH

[ ] Mark (X) this box if you attach a continuation sheet.

Trade Name	Supplier or Manufacturer	Average % Composit by Weigh (specify <u>+</u> % pr	ion '	Amount Processed (kg/yr)
Wingfil Part A.	ARNCO	4.0 ± 0.5	<del></del>	163.53
	. •		· · · · · · · · · · · · · · · · · · ·	
			•	-
				-
			•	
•				
		:		
				· .

 $\{ \begin{array}{c} \\ \end{array} \}$  | Mark (X) this box if you attach a continuation sheet.

3.05 CBI	State the quantity of the l reporting year in the form the percent composition, by	Ol a class I obomical also	- TT -1
		Quantity Used (kg/yr)	<pre>% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision)</pre>
	Class I chemical	163.53	4.0 ± 0.5
		·· <del></del>	
			70 Total
			<del></del>
	Class II chemical		
	Polymer		
		et en	-
	·		
	•		
	:		

	SECTI	ON 4 PHYSICAL/CHEMIC	CAL PROPERTIES	
Gener	cal Instructions:		<u> </u>	
If you	ou are reporting on a mixtuat are inappropriate to mix	ure as defined in the ktures by stating "NA	glossary, reply to que mixture."	stions in Section
notio	questions 4.06-4.15, if you se that addresses the info imile in lieu of answering	rmation requested, you	may submit a copy or	l, MSDS, or other reasonable
PART	A PHYSICAL/CHEMICAL DATA	SUMMARY	:	:
4.01 <u>CBI</u>	Specify the percent puri substance as it is manufacubstance in the final primport the substance, or	actured, imported, or roduct form for manufa	processed. Measure th	e purity of the
`		Manufacture	Import	Process
	Technical grade #1	% purity	% purity NA-	mixture % purity
	Technical grade #2	% purity	% purity	% purity
	Technical grade #3	% purity	% purity	% purity
	<sup>1</sup> Major = Greatest quanti	ty of listed substance	e manufactured, importe	ed or processed.
4.02	Submit your most recently substance, and for every an MSDS that you develop version. Indicate whethe appropriate response.	formulation containing for and an MSDS develop	ng the listed substance ped by a different sour	e. If you possess cce, submit your
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	No	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	
	Indicate whether the MSD	S was developed by yo	ur company or by a dif	ferent source.
	Your company			

Another source ......

[ ] Mark (X) this box if you attach a continuation sheet.

2



## HATERIAL SAFETY DATA SHEET

REVISION DATE June 4 . 1986

# GENERAL INFORMATION

PRODUCT NAME : WING-FIL COMPONENT "A"

CHEHICAL NAME : TDI Prepolymer plus Petroleum Hydrocarbon

CHEHICAL FAHILY : Isocyanate Prepolymer and Petroleum Hydrocarbon

: Proprietary DOT HAZARD CLASS : UN2078 (TDI)

HANUFACTURER ' : ARNCO, 5141 Firestone Place, South Gate, CA 90280-3570

Phone No: (213)567-1378

CHEMTREC Phone No: (800)424-9300 District of Columbia: (202)483-7616

### II. INGREDIENTS

Components	TLV	Flash Point OF	Boiling Point OF	Vapor Press. mm Hg	Vapor Dens. (Air=1)	Flammable Limit LEL UEL
TDI Prepolymer	0.02ppm 0.2mg/m3	Not Estab.	Not Estab.	0.02 @77°F.	6.0	Not Estab.
Petroleum Hydrocarbon	0.2mg/m <sup>3</sup> TWA-ACGIH	>300	>550	<1.0 @68°F.	<0.1	No Data

## III. PHYSICAL DATA

BOILING POINT (°F) : 464

VAPOR PRESSURE (mm Hg) : SEE SECTION II VAPOR DENSITY (Air=1) : SEE SECTION II

SOLUBILITY IN WATER. \$ : Insoluble. Reacts with water to liberate

CO2 gas. APPEARANCE & ODOR

: Dark brown liquid. Sharp pungent odor. SPECIFIC GRAVITY (H20=1)

: 1.01

\* VOLATILE BY VOLUME : Negligible

EVAPORATION RATE (Ether=1): Not Established

#### IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F)

: 320

FLAHHABLE LIHITS

.: Not Established

EXTINGUISHING MEDIA

: Dry chemical, chemical foam, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full emergency equipment with self-contained pressure-demand breathing apparatus. Use water to cool fire-exposed containers. Eliminate all sources of ignition.

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, toxic gases are genererated. Closed containers may explode from extreme heat or from water contamination. DO NOT reseal water-contaminated containers, as pressure buildup up may cause violent rupture of the container.

#### V. HEALTH HAZARD DATA

THRESHOLD LIHIT VALUE: 0.02 ppm; 0.2 mg/m3

#### SYMPTOMS OF EXPOSURE:

INHALATION: Hay cause dizziness and nausea. Irritation of the upper and lower respiratory tract. Some individuals may develop isocyante hypersensitization and must avoid further exposure to even low isocyanate levels. Inhalation of mists may present a cancer hazard in Sinusitis, brochitis, asthma, and impaired ventilatory capacity can occursin some individuals.

INGESTION: Irritation and corrosive action in the mouth, stomach and digestive tract. Possibly liver toxicity. Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

EYES: Liquid, vapors, or mist can cause sever irritation, redness, tearing, blurred vision and possibly irreversible damage to the eye.

SKIN: Irritation and allergic sensitivity may occur for some individuals, producing reddening, swelling or blistering, and skin sensitization, possibly resulting in dermatitis. This product contains petroleum oils similar to those catogarized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

#### BATTICO

٠:

5141 FIRESTONE PLACE • SOUTH GATE, CAUFORNIA 90280 • (213) 567-1378 • (213) 567-0587 • TWX 910-321-4156

# V. HEALTH HAZARD DATA (continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing unspecific bron-chial hypersensitivity and, potentially, any allergies.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

### EHERGENCY FIRST AID:

INHALATION: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, apply artificial respiration, and get medical attention immediately. NOTE TO PHYSICIAN: Treat symptomatically: bronchodilators; oxygen.

INGESTION: DO NOT INDUCE VOMITING. Aspiration can be fatal. Give a glass of milk or water, keep patient quiet and warm, and get prompt medical atten-

EYES: Flush immediately with water for at least 15 minutes, occasionally lifting the eyelid, and get prompt medical attention.

SKIN: Remove contaminated clothing and launder before reuse. Wash affected skin with soap and water. Consult a physician if swelling or reddening occurs.

## VI. REACTIVITY DATA

STABILITY: Stable under normal, recommended storage conditions.

CONDITIONS TO AVOID: Open flame and storage temperatures above 120°F

INCOMPATIBILITY: Haterials to avoid are water. alcohols, ammonia, amines, and alkalis. Contaminated containers should be left vented and be moved to a safe area for neutralization and proper disposal.

HAZARDOUS POLYHERIZATION: Hay occur.

CONDITIONS TO AVOID: Exposure to high temperature, or resealing of containers contaminated with materials listed under INCOMPATIBILITY (materials to avoid).

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides, sulfur oxides, unidentified organic compounds, and traces of hydro-



#### 82THC0

٠:

5141 FIRESTONE PLACE • SOUTH GATE, CAUFORNIA 90280 • (213) 567-1378 • (213) 567-0587 • TWX 910-321-4156

Page 3 of 4

"A" INDROTATO GALACOM

SPILL RESPONSE: Evacuate and ventilate the area. Eliminate all sources of ignition. Respiratory protection must be worn during cleanup. Cover the spill with sawdust, vermiculite, or other absorbent material. Scoop and with a decontamination and remove to well ventilated area to be treated Carbide) and 80% water; or 5% concentrated ammonia, 2% detergent, and 93% water. Leave the container open for 24-48 hours. Wash down the spill area with decontamination solution. For major spills call CHEMTREC: (800)

WASTE DISPOSAL METHOD Decontaminated waste must be disposed of in accordance with Federal, State, and local environmental control regulations. It Resources Conservation and Recovery Act.

# VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Chemical workers goggles or full-face shield. Contact lenses should not be worn in or near work area.

RESPIRATORY PROTECTION: HSHA/NIOSH approved positive-pressure air-supplied respirator with full-face shield. Organic vapor filters are not effective against TDI vapor. The vapor pressure of TDI is such that at normal temperatures, vapor concentration in the air will exceed the TLV of 0.02 ppm.

SKIN PROTECTION: Impervious, chemical resistant (natural rubber) gloves, arm covers, aprons or coveralls, boots and caps.

VENTILATION RECOMMENDED: General mechanical ventilation and local exhaust. to maintain vapor concentration below the TLV.

OTHER PROTECTION: Safety showers and eye wash stations must be easily accessible. Provide a dry nitrogen blanket in bulk storage tanks.

## IX. SPECIAL PRECAUTIONS

HYGIENIC PRACTICES IN HANDLING & STORAGE: Store below 100°F, preferably below 90°F, in tightly-closed containers to prevent atmospheric moisture contamination. DO NOT reseal if contamination is suspected. DO NOT store near open flame or high heat.

Wear protective equipment to prevent eye and skin contact. DO NOT breath vapors. Wash hands before eating or smoking.

Since emptied containers retain product residues (vapor or liquid), all hazard precautions given in this HSDS must be observed. For proper container disposal, fill with water and allow to stand unsealed for at least 48 hours then dospose of in accordance with Federal, State and local environmental control regulations.

THE INFORMATION IN THIS MSDS IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF ARNCO. THE DATA ON THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. ARNCO ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA.

#### STRCO

5141 FIRESTONE PLACE • SOUTH GATE CALIFORNIA 90280 • (213) 557-1378 • (213) 557-0587 • TWX 910-321-4155

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No 2
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at
CBI	the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

		Phy	sical State		
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	1	2	3	4	5
Store	1	2	3	4	5
Dispose	1	2	3	4	5
Transport ·		2	3	4	5

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

4.05, CBI	percentage particles importing listed su	Size If the lister activities, indicate activities, indicate activities of the sign of	te for each ap ne listed subs neter. Measur vities at the ne physical st	plicable tance by e the ph time yo ate and	physical activity activity.	state Do nate and or beging sizes f	the size ot includ particle n to proc or manufa	and the e sizes for ess the
	Physical State		Manufacture	Import	Process	Store	Dispose	Transport
	Dust	<1 micron	•		NA			
		1 to <5 microns	•		NA	21		
		5 to <10 microns			NA			
	Powder	<1 micron			NA			•
		1 to <5 microns			NA NA		-	
		5 to <10 microns			NA NA			
	Fiber	<1 micron		· · · · · · · · · · · · · · · · · · ·	NA		**************************************	
		1 to <5 microns			NA_			-
		5 to <10 microns			NA			
	Aerosol	<1 micron			NA			
		1 to <5 microns			NA		-	
		5 to <10 microns			NA			
<u> </u>	Mark (Y)	this how if you atte	ah a anasan	-:				

SECTION	5	ENVIRONMENTAL FATE
SECTION	J	LINVIKUNMENTAL FATE

I	Photolysis: Absorption spectrum coefficient (peak) Reaction quantum yield, 6		
I	Reaction quantum yield, 6		
1		at	nm
b. (	Direct photolysis rate constant, $k_p$ , at		
• •	e oxidation constants at 25°C:		14 (1 (4)
F	Cor 10 <sub>2</sub> (singlet oxygen), k <sub>ox</sub>		1/M
F	or RO <sub>2</sub> (peroxy radical), k <sub>ox</sub>		1/H
	ive-day biochemical oxygen demand, BOD <sub>5</sub>		
	iotransformation rate constant:		
F	or bacterial transformation in water, k		1/hr
S	pecify culture	 	
	ydrolysis rate constants:		
F	or base-promoted process, k <sub>B</sub>		1/M
	or acid-promoted process, k,		
F	or neutral process, k <sub>k</sub>		
	hemical reduction rate (specify conditions)		
g. 0 -	ther (such as spontaneous degradation)		<del>-</del> 

<u> </u>		Specify the half-life of the l				
5.02	a.	g media	•			
		Media	NA-	Mixture	• -	
		<u></u>		Half-life (specif	y units	)
		Groundwater				
		Atmosphere				
		Surface water				
		Soil				
	b.	Identify the listed substance's life greater than 24 hours.	s known trans	Formation products	that ha	ave a half-
		CAS No.	Name	Half-life (specify units)		Modia
		-			•	Media
					in	
			<del></del>	<b>₽</b>	in	
5.03	Sne	cify the cotonel water	NA-	Mixture		
	U	cify the octanol-water partition	coefficient,	K		at 25°0
	met	nod of calculation or determinat	ion			
			NA-	Mixture		
J.04	Spe	cify the soil-water partition co	efficient, K <sub>d</sub>	•••••	·	at 25°0
	Soi	l type	• • • • • • • • • • • • • • • • • • • •	•••••		
5.05	Spec	cify the organic carbon-water pa	rtition	Mixture		
	coe	fficient, K <sub>c</sub>	•••••••			at 25°0
5.06	Spec	cify the Henry's Law Constant, H	NA-	Mixture		3
	•	Jane Henry C Dar Constant, In	•••••••			_ a(m-m /mole -
		<u> </u>	<del></del>			
[_]	Mark	(X) this box if you attach a c	ontinuation s	heet.		

Bioconcentration Factor		Species	ixture		<u>Test</u> <sup>1</sup>
	<del></del>	·			
<sup>1</sup> Use the following codes to	designate	the type	of test:	÷	
F = Flowthrough S = Static				t	
		,			
				•	

6.04 CBI	For each market listed below, state to the listed substance sold or transfer	the quantity sold and the to	tal sales value of rting year.
[_]			\
	<u>Market</u>		Total Sales Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution - Retailers		
	Intra-company transfer		
\	\Repackagers \		
	Aixture producers		
	Article producers	<u> </u>	<u> </u>
	Other chemical manufacturers or processors		
	Exporters	<del></del>	
	Other (specify)		
	(=1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	\	\ \
6.05		cially feasible substitutes	that you know exist
CDT	feasible substitute is one which is	Ne cost of each substitute. economically and technologic	A commercially
CBI	in your current operation, and which performance in its end uses.	results in a final product	vith comparable
{_j	Substitute	•	Cost (\$/kg)
	No substitutes currently known	<u> </u>	
1-,	Mark (X) this box if you attach a con		
·—,	were (a) this box it you attach a con	nermuation sneet.	

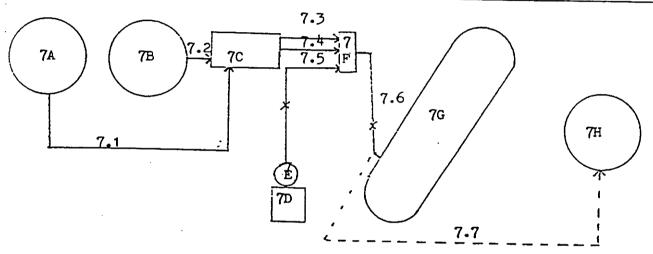
#### General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the

# PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

[ ] Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

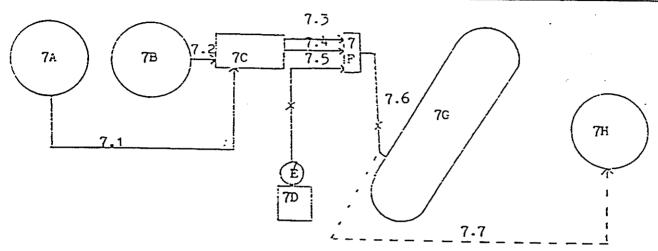
7H = Clean-out Solution Drum

 $<sup>\{ \</sup>overline{\phantom{a}} \}$  Hark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

 $<sup>[\ ]</sup>$  Hark (X) this box if you attach a continuation sheet.

l Process tun	a Batab	Dolanimothers Dolania		
Process typ	е	Polyurethane Polymen	rization	
Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Compositio
7A	Drum	Ambient	Atmospheric	Steel
7B	Drum	Ambient	Atmospheric	Steel
7C	Metering Pump	Ambient	Atmospheric	Stainless
<b>7</b> D	5 Gallon Can	Ambient	Atmospheric	Steel
7E	Pump	Ambient	Atmospheric	Steel
<u>7</u> F	Mixing Head	Ambient	Atmospheric	Stainless
7G	Tire	Ambient	Atmospheric	Vul. Rubb
<u>7</u> H	Drum	Ambient	Atmospheric	Steel
			<del></del>	
			•	

Process type Batch - Polyurethane Polymerization											
Process											
Stream ID											
Code	Process Stream Description	Phone in A. Co 1	Stream								
7.1	TDI Prepolymer	Physical State	Flow (kg/								
		OL ·	4088								
7.3	TDI Prepolymer	OL	4088								
7.6	Polymerizing Polyurethane	OL	8176								
			-								
			<del></del>								
<sup>1</sup> lise the follow	wing odd- to the										
GC = Gas (cor GU = Gas (und SO = Solid SY = Sludge of AL = Aqueous OL = Organic	liquid	and pressure) re and pressure)									
GC = Gas (cor GU = Gas (und SO = Solid SY = Sludge of AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatur or slurry liquid liquid	and pressure) re and pressure)									
GC = Gas (cor GU = Gas (und SO = Solid SY = Sludge of AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatur or slurry liquid liquid	and pressure) re and pressure)									
GC = Gas (cor GU = Gas (und SO = Solid SY = Sludge of AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatur or slurry liquid liquid	and pressure) re and pressure)									
GC = Gas (cor GU = Gas (und SO = Solid SY = Sludge of AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatur or slurry liquid liquid	and pressure) re and pressure)									
GC = Gas (cor GU = Gas (und SO = Solid SY = Sludge of AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatur or slurry liquid liquid	and pressure) re and pressure)									
GC = Gas (cor GU = Gas (und SO = Solid SY = Sludge of AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatur or slurry liquid liquid	and pressure) re and pressure)									

]	Process type Batch - Polyurethane Polymerization												
	a.	b.	c.	d.	e.								
	Process Stream ID Code	Known Compounds <sup>1</sup>	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)								
	7.1	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA								
		Petroleum Hydrocarbon	55 ± 5.0 (E) (W)	NA	NA								
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W)	NA	. NA								
	7.3	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA								
		Petroleum Hydrocarbon	55, ± 5.0	NA	NA								
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W) -	NA	NA.								
	7.6	Polyurethane	(E) -(₩)	NA	NA.								
		Toluene Diisocyanate	(£) (w)	NA	NA								
		Amine	<u>(e) (w)</u>	NA .	NA NA								
06	continued b	elov											
					•								
	·												

7.06 (cont:	inued)
-------------	--------

<sup>1</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentration (% or ppm)
1		
		-
2		
2		
3		
4		
		-
5		
Use the following codes	to designate how the concentrat	ion vas determined:
A = Analytical result		
E = Engineering judgeme		
Use the following codes	to designate how the concentrat	ion vas measured:
V = Volume V = Veight		

8.01 CBI	In accor which do	rdance with th escribes the t	e instruc reatment	tions, p process	rovide a used for	residu residu	al treat als iden	ment bloch tified in	c flow dia question	gram 7.01
[_]	Process	type	•	Batch	- Polyure	thane	Polymeri	zation		
			NA							
								ı		
								•		•
	•									- '
		•								
		•								
		•								
					,					
								•		
			•							
			,							
		•								
				• •						

8.05 CBI	diagram process	n(s). If a r type, photo	esidual treat copy this que	ment block fi estion and con	in your residua low diagram is mplete it sepa r explanation a	provided for rately for ea	more than one
[_]	Process	type	Bat	tch - Polyure	thane Polymeri	zation	
	а.	<b>b.</b>	c.	d.	е.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual <sup>2</sup>	Known Compounds <sup>3</sup>	Concentra- tions (% or ppm) <sup>4,5,6</sup>	Other Expected Compounds	Estimated Concen- trations (% or ppm)
					***************************************		
						.,	
			-				
8.05	continu	ed belov					

8	. (	0	5	(	c	o	n	t	i	n	u	e	d	)
v	•	J	_	١.	·	v	**	•	-		u		u	,

<sup>1</sup>Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

<sup>2</sup>Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

#### 8.05 continued below

8.	0	5	(	c	o	n	t	i	n	u	e	đ	)
-	•	_	•	•	v	••	•	-	••	•	•	•	,

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components Additive Pa	of ckage	Concentrations (% or ppm)
1	****		
		· ·	
	•	-	
2		-	- <u>'</u>
	· · · · · · · · · · · · · · · · · · ·		
3		<del></del> -	
	•		
4			· · · · · · · · · · · · · · · · · · ·
	:		<del> </del>
5			
	<del></del>	<del></del> -	
	<u></u>		······································
<sup>4</sup> Use the following	ng codes to designate how t	he concentration was	s determined:
A = Analytical E = Engineering	esult judgement/calculation		
8.05 continued below			
[_  Mark (X) this bo	c if you attach a continuat	ion sheet.	
	56		

8.05 (continue	ed)
----------------	-----

<sup>5</sup>Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

<sup>6</sup>Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit ( <u>t</u> ug/l)
1	-	-
2		• - •
3		
4		
5		
6		

8.06	diagra	am(: ss	s). If type, p	a res	sidua opy t	l trea	am idential that the state of t	lock and c	flow di omplete	agr it	am is separ	prov atel	ided for y for ea	r moi ach i	e than one
CBI															
[_]	Proces	ss	type		·· _	Ba	tch - Po	lyure	thane 1	Poly	ymeriza	ation	1		
	a.		ь.		c	. NA	d.			e.			f. Costs fo	or	g.
	Stream ID Code		Wast Descrip Code	tion	Met	ement hod de	Resido Quanti (kg/y:	ties	of Re	sid	ement lual (% Off-Si		Off-Site Manageme (per k	e en t	Changes in Management Methods
				-						_		·	•		
	,			•						<del>-</del> -			-		_ '
				-		<del></del> -				_					
										_					
				•						_					
									•770-770-	_					
											4				
										_				·	
							•		-	_					
		-	-	<del></del>						_					
											-				
							ibit 8-1 ibit 8-2								
[_]	Mark	(X)	this l	oox if	you	attac	h a cont	inua	tion sh	eet	•				

#### WASTE DESCRIPTION CODES

These waste description codes were developed specifically for this survey to supplement the descriptions listed with the RCRA and other waste codes. (These waste description codes are not regulatory definitions.)

### WASTE DESCRIPTION CODES FOR HAZARDOUS WASTE DESCRIBED BY A SINGLE RCRA F, K, P, OR U WASTE CODE

- A01 Spent solvent (F001-F005, K086)
- A02 Other organic liquid (F001-F005, K086) A03 Still bottom (F001-F005, K086)
- A04 Other organic studge (F001-F005, K086)
- A05 Wastewater or aqueous mixture
- A06 Contaminated soil or cleanup residue
- A07 Other F or K waste, exactly as described
- A08 Concentrated off-spec or discarded
- A09 Empty containers

""Exactly as described" means that the waste matches the description of the RCRA waste code.

- A10 Incinerator ash
- A11 Solidified treatment residue
- Other treatment residue (specify in A12 "Facility Notes")
- A13 Other untreated waste (specify in "Facility Notes")

- INORGANIC LIQUIDS—Waste that is primarily inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic
- B01 Aqueous waste with low solvents
- B02 Aqueous waste with low other toxic organics
- 803 Spent acid with metals
- **B04 Spent acid without metals**
- **BOS Acidic aqueous waste**
- B06 Caustic solution with metals but no cyanides
- 807 Caustic solution with metals and cyanides
- 808 Caustic solution with cyanides but no metals
- 809 Spent caustic
- 810 Caustic aqueous waste
- B11 Aqueous waste with reactive sulfides
- B12 Aqueous waste with other reactives (e.g., explosives)
- B13 Other aqueous waste with high dissolved solids
- B14. Other aqueous waste with low dissolved SONOS
- **B15** Scrubber water
- 816 Leachaie
- **B17** Waste liquid mercury
- B18 Other inorganic liquid (specify in "Facility Notes"
- INORGANIC SLUDGES—Waste that is primarily inorganic, with moderate-to-high water content and low organic content; pumpable.
- 819 Lime sludge without metals
- 820 Lime sludge with metals/metal hydroxide sludge
- Wastewater treatment sludge with toxic Organics
- 822 Other wastewater treatment sludge
- B23 Untreated plating sludge without cyanides
- B24 Untreated plating sludge with cyanides
- 825 Other sludge with cyanides 826 Sludge with reactive sulfides
- **B27** Sludge with other reactives
- 828 Degreasing sludge with metal scale or
- filings
- 829 Air pollution control device sludge (e.g., fly ash, wet scrubber sludge)
- 830 Sediment or lagoon dragout contaminated with organics
- 831 Sediment or lagoon dragout contaminated with inorganics only

- Dollara mud
- 833 Asbestos slurry or sludge
- 834 Chloride or other brine studge
- 835 Other inorganic studge (specify in "Facility Notes")
- INORGANIC SOLIDS—Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content: not pumpable.
- Soil contaminated with organics
- **B37** Soil contaminated with inorganics only 638
- Ash, stag, or other residue from incineration of wastes
- 839 Other "dry" ash, slag, or thermal residue
- "Dry" lime or metal hydroxide solids 840 chemically "fixed"
- "Dry" time or metal hydroxide solids not **B41** Szad'
- B42 Metal scale, filings, or scrap
- Empty or crushed metal drums or con-
- **R44** Batteries or battery parts, casings, cores 845 Spent solid filters or adsorbents
- 846 Aspestos solids and debns
- 847 Metal-cyanide salts/chemicals
- 848 Reactive cyanide satts/chemicals
- Reactive sulfide salts/chemicals 849
- 850 Other reactive satts/chemicals
- 851 Other metal salts/chemicals
- 852 Other waste morganic chemicals
- 853 Lab packs of old chemicals only **RS4**
- Lab packs of debns only 855
- Mixed lab packs
- **BS6** Other inorganic solids (specify in Fecility Notes"1
- INORGANIC GASES—Waste that is primarily inorganic with a low organic content and is a gas at atmospheric pressure.
- BS7 Inorganic gases
- ORGANIC LIQUIDS-Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content.
- Concentrated solvent-water solution
- 859 Halogenated (e.g., chlonnated) solvent
- **B60** Nonhalogenated solvent

- Halogenated/nonhalogenated solvent mixture
- B62 Oil-water emulsion or mixture
- 863 Waste oil
- 864 Concentrated aqueous solution of other organics
- B65 Concentrated phenolics
- Organic paint, ink, lacquer, or varnish
- Adhesives or expoxies 867
- Paint thinner or petroleum distillates
- **B**69 Reactive or polymerizable organic liquio **B70**
- Other organic liquid (specify in "Facility Notes")
- ORGANIC SWDGES-Waste that is primarily organic, with low-to-moderate inorganic solids content and water content; pumpable.
- Still bottoms of halogenated (e.g., chlori-
- nated) solvents or other organic liquids B72
- Still bottoms of nonhalogenated solvents or other organic liquids
- 873 Oily studge
- **PI74** Organic paint or ink studge
- 875 Reactive or polymerizable organics
- 876 Resins, tars, or tarry studge
- Biological treatment sludge 877 678
- Sewage or other untreated biological sludge 679
- Other organic sludge (specify in "Facility Notes")
- ORGANIC SOLIDS-Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable.
- 880 Halogenated pesticide solid
- 881 Nonhalogenated pesticide solid
- Solid resins or polymenzed organics 882
- R83 Spent carbon
- 884 Reactive organic solid
- 885 Empty fiber or plastic containers 886 Lab packs of old chemicals only
- 887 Lab packs of depns only
- 888 Mixed lab packs
- 889 Other halogenated organic solid
- Other nonhalogenated organic solid

ORGANIC GASES—Waste that is primarily organic with low-to-moderate inorganic content and is a das at atmospheric pressure.

B91 Organic cases

BEST COPY AVAILABLE

59

# EXHIBIT 8-2. (Refers to question 8.06(c))

# MANAGEMENT METHODS

HAMADHEN	I METHODS
M1 = Discharge to publicly owned	Become of a large 121 11
vastevater treatment works	Recovery of solvents and liquid organics for reuse
M2 = Discharge to surface vater under	1SR Fractionation
NPDES	2SR Batch still distillation
M3 = Discharge to off-site, privately	3SR Solvent extraction
owned wastewater treatment works	4SR Thin-film evaporation
M4 = Scrubber: a) caustic; b) water;	5SR Filtration
c) other	6SR Phase separation
MS = Vent to: a) atmosphere; b) flare;	7SR Dessication
c) other (specify)	8SR Other solvent recovery
M6 = Other (specify)	
	Recovery of metals
TREATHENT AND RECYCLING	1MR Activated carbon (for metals
Trainanation (Abana )	recovery) .
Incineration/thermal treatment	2MR Electrodialysis (for metals
II Liquid injection 2I Rotary or rocking kiln	recovery)
	3MR Electrolytic metal recovery
3I Rotary kiln with a liquid injection unit	4MR Ion exchange (for metals recovery)
4I Tvo stage	5MR Reverse osmosis (for metals
5I Fixed hearth	recovery)
6I Multiple hearth	6MR Solvent extraction (for metals
7I Fluidized bed	recovery)
8I Infrared	7MR Ultrafiltration (for metals
9I Fume/vapor	recovery) 8MR Other metals recovery
10I Pyrolytic destructor	8HR Other metals recovery
11I Other incineration/thermal	Vastevater Treatment
treatment	After each vastevater treatment type
	listed below (1VT - 66VT) specify
Reuse as fuel	a) tank; or b) surface impoundment
lRF Cement kiln	(i.e., 63VTa)
2RF Aggregate kiln	(=====
3RF Asphalt kiln	Equalization
4RF Other kiln	1VT Equalization
5RF Blast furnace	
6RF Sulfur recovery furnace	Cyanide oxidation
7RF Smelting, melting, or refining	2VT Alkaline chlorination
furnace	3VT Ozone
8RF Coke oven	4VT Electrochemical
9RF Other industrial furnace	SVT Other cyanide oxidation
10RF Industrial boiler	
11RF Utility boiler 12RF Process heater	General oxidation (including
13RF Other reuse as fuel unit	disinfection)
ish other reuse as tuel unit	GVT Chlorination
Puel Blending	7VT Ozonation
1FB Fuel blending	8VT UV radiation
115 tdel blending	9VT Other general oxidation
Solidification	Chamian) avaniningiani
1S Cement or cement/silicate processes	Chemical precipitation <sup>1</sup> 10VT Lime
2S Pozzolanic processes	11VT Sodium hydroxide
3S Asphaltic processes	12VT Soda ash
4S Thermoplastic techniques	13VT Sulfide
5S Organic polymer techniques	14VT Other chemical precipitation
6S Jacketing (macro-encapsulation)	other chemical precipitation
7S Other solidification	Chromium reduction
- · · -	15VT Sodium bisulfite
	16VT Sulfur dioxide

#### EXHIBIT 8-2. (continued)

#### MANAGEMENT METHODS

17VT Ferrous sulfate 18VT Other chromium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment)
19VT Complexed metals treatment

Emulsion breaking 20VT Thermal 21VT Chemical 22VT Other emulsion breaking

Adsorption
23VT Carbon adsorption
24VT Ion exchange
25VT Resin adsorption
26VT Other adsorption

Stripping 27VT Air stripping 28VT Steam stripping 29VT Other stripping

Evaporation
30VT Thermal
31VT Solar
32VT Vapor recompression
33VT Other evaporation

Filtration 34VT Diatomaceous earth 35VT Sand 36VT Multimedia 37VT Other filtration

Sludge devatering
38VT Gravity thickening
39VT Vacuum filtration
40VT Pressure filtration (belt, plate
and frame, or leaf)
41VT Centrifuge

Air flotation
43VT Dissolved air flotation
44VT Partial aeration
45VT Air dispersion
46VT Other air flotation

42VT Other sludge devatering

Oil skimming 47VT Gravity separation 48VT Coalescing plate separation 49VT Other oil skimming

Other liquid phase separation 50VT Decanting 51VT Other liquid phase separation

Biological treatment
52VT Activated sludge
53VT Fixed film-trickling filter
54VT Fixed film-rotating contactor
55VT Lagoon or basin, aerated
56VT Lagoon, facultative
57VT Anaerobic
58VT Other biological treatment

Other vastevater treatment
59VT Vet air oxidation
60VT Neutralization
61VT Nitrification
62VT Denitrification
63VT Flocculation and/or coagulation
64VT Settling (clarification)
65VT Reverse osmosis
66VT Other vastevater treatment

#### OTHER VASTE TREATMENT

1TR Other treatment 2TR Other recovery for reuse

#### ACCUMULATION

1A Containers 2A Tanks

#### STORAGE

1ST Container (i.e., barrel, drum)
2ST Tank
3ST Waste pile
4ST Surface impoundment
5ST Other storage

#### DISPOSAL

1D Landfill

2D Land treatment

3D Surface impoundment (to be closed as a landfill)

4D Underground injection well

Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60VT).

8.22 CBI	(by capacity)	oubustion chamber incinerators that lock or residual t	are used on-si	te to burn the i	residuals ide	gest tified in
[_]		Combustion Chamber Temperature (	Ţ	ocation of emperature Monitor	In Com	nce Time bustion (seconds)
	Incinerator	Primary Secon	ndary Primar	y Secondary	Primary	Secondary
	1			<u> </u>		
	2			_\		
	3		<u> </u>			
	Indicate by circl	if Office of Soli	d Waste survey te response.	has been submi	tted in lied	of response
	Yes	····\······	\		• • • • • • • • • • • • • • • • • • • •	1
	No				· · · · · · · · · · · · · · · · · · ·	2
8.23 <u>CBI</u>	are used on-si	ollowing table for te to burn the res k flow diagram(s). NA	siduals identif	gest (by capaci ied in your pro	ty) incinerato cess block or Types	residual
	Incinerator	9	Air Pollution Control Device		Emission Avail	s Data
	1	·.		_		
	2		·			
	3	_				
		if Office of Soling the appropria		has been submi	tted in lieu	of response
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			1
		• • • • • • • • • • • • • • • • • • • •				
	_	ving codes to des				
	E = Electrost	(include type of atic precipitator ecify)	-			
[_]	Mark (X) this	box if you attach	a continuation	sheet.		

#### PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01	Mark (X) the appropriate column to indicate whether your company maintains records on the following data elements for hourly and salaried workers. Specify for each data
CBI	element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further explanation and an example.)

Data Element	Hourly Workers	intained for Salaried Workers	Year in Which Data Collection Began	Number of Years Records Are Maintained
Date of hire	λ,	<u> </u>	1981	permanent
Age at hire	X	<u> </u>	1981	
Work history of individual before employment at your facility	<u></u>		1981	<u></u>
Sex	<u> </u>	<u> </u>	1981	
Race			<u> 1981</u>	11
Job titles		X	1981	
Start date for each job title			1981	
End date for each job title	<u> </u>	<u> </u>	1981	
Work area industrial hygiene monitoring data	<u> </u>	<u> </u>	1981	
Personal employee monitoring data	<u> </u>	<u> </u>	1981	
Employee medical history	<u>`</u> Y	<u> </u>	1981	
Employee smoking history				
Accident history			1981	
Retirement date	X	<u>×</u>	1981	
Termination date			1981	
Vital status of retirees	<u> </u>		1981	Permaneno
Cause of death data				

	[_]	Mark	(X)	this	box	i f	you	attach	а	continuation	sheet.
--	-----	------	-----	------	-----	-----	-----	--------	---	--------------	--------

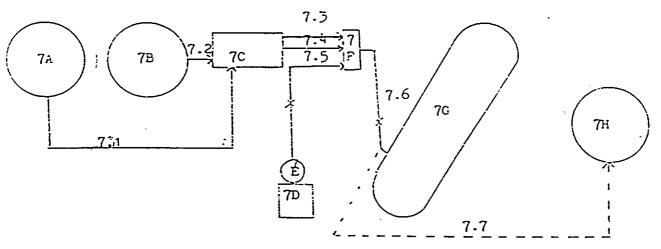
9.02 CBI	In accordance with the in which you engage.	e instructions, complete	the following ta	ble for ea	ach activity
<u></u> 1	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hours
	Manufacture of the listed substance	Enclosed		WOLKELS	worker-nours
	fisted substance	Controlled Release			
		0pen		*	
	On-site use as reactant	Enclosed	163 53		240
	200000	Controlled Release			•
		0pen			
	On-site use as	Enclosed	-		
	nonreactant	Controlled Release			
		0pen			
	On-site preparation	Enclosed			
	of products	Controlled Release			
	·	0pen	<u> </u>		
		e e e e e e e e e e e e e e e e e e e			
				•	
				·	
		•			•
	•				

9.03 CBI	Provide a descriptive job title for each labor category at your facility that encompasses workers who may potentially come in contact with or be exposed to the listed substance.					
<u> </u>						
	Labor Category	Descriptive Job Title				
	A	** ** <del>********************************</del>				
	В	Fleet Service Mon SERVICE Monager				
	С	- Salesman				
	D					
	E	Center Manager.				
	F					
	G					
	H					
	I					
	J ·					
		· •				
<del></del>						

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

| Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

Note: All above is considered one work area

CBI	7.02. Photocopy this	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.					
(_)	Process type	Batch - Polyurethane Polymerization					
	Work Area ID .	Description of Work Areas and Worker Activities					
	1	Pumping TDI/Amine solutions to mixer, filling tires through valve stem with polyurethane, and cleaning hosing with alcohol					
	2						
	3						
	4						
	5						
	· 6						
	7						
	8						
	9						
	10						
		•					
		•					
	·						
<del></del> ,	Mark (V) ship i so	you attach a continuation sheet.					

Process typ	and complete it separately for each process type and work area.  Process type Batch - Polyurethane Polymerization									
Work area	Work area									
Labor Category	Number of Workers Exposed	Mode of Exposu (e.g., dir skin conta	re St ect L	ysical ate of sisted	Average Length of Exposure Per Day <sup>2</sup>	Number o Days per Year Expose				
A		dwest SKI	cont.	OL	<b>D</b>	60				
					•	-				
-	-									
						<u> </u>				
				4177						
						-				
GC = Gas temp GU = Gas temp incl SO = Soli	condensible at cerature and preduced and preduced and preduced and preduced functions for the cerature and preduced functions codes to the cerature and cera	t ambient essure) at ambient essure; oors, etc.) to designate av	SY = Slu AL = Aqu OL = Org IL = Imm (sp 902 erage lengt	adge or specification of expecting the context of expecting 4	lurry uid uid liquid ases, e.g., 10% toluene) osure per day	: not				

07 31	For each labor category represented in question 9.06, indicate the 8-hour Time Weighted Average (TWA) exposure levels and the 15-minute peak exposure levels. Photocopy this question and complete it separately for each process type and work area.								
_ _ <sub>]</sub>	Process type	Process type Batch - Polyurethane Polymerization							
<b>-</b> ·	Work area		1						
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)						
	₩	*	*						
			:						
			·						
			· · · · · · · · · · · · · · · · · · ·						
	·								
			·						
* No	tests have been cond	ducted							
2,0									

No mor	itor <b>wo</b> rk	er exposure	available			
0 l - (m	Work	Testing Frequency	Number of Samples	Who	Analyzed In-House	
Sample/Test	Area ID	(per year)	(per test)	Samples	(Y/N)	Maintained
Personal breathing zone			Wind Workship			
General work area (air)			-	•		
Wipe samples						
Adhesive patches						
Blood samples						
Urine samples	***************************************					
Respiratory samples			· · · · · · · · · · · · · · · · · · ·			
Allergy tests.						
Other (specify)						
Other (specify)					•	
Other (specify)		<u></u>				
Use the following of A = Plant industrian B = Insurance carr C = OSHA consultan	al hygien: ier	_	no takes the	e monitori	ng samples:	:

[_]	Sample Type		Sampling and Analyt	ical Methodolo	<u>gy</u>
		NA			
10 I	If you conduct person specify the following	nal and/or ambier g information for <b>Do not conduct</b>	r each equipment typ	r the listed s e used.	ubstance,
	Equipment Type	Detection Limit		Averaging Time (hr)	Model Number
	•				
	·				
	<sup>1</sup> Use the following co				
	A = Passive dosimeter B = Detector tube C = Charcoal filtrat D = Other (specify)		•		
	Use the following co	odes to designate	e ambient air monito	ring equipment	types:
	E = Stationary monit F = Stationary monit G = Stationary monit H = Mobile monitorin I = Other (specify)	tors located with tors located at p	nin facility plant boundary ecify)		
	<sup>2</sup> Use the following co			its:	
	A = ppm B = Fibers/cubic cer C = Micrograms/cubic	ntimeter (f/cc) c meter (µ/m³)			

	Test Descr		tests (	conducted	(weekly	Freque, monthly	ency , yearl	y, etc.
				<del></del>				
			<del></del>					
							<u>.</u>	
						· · · · · · · · · · · · · · · · · · ·	<u>.</u>	
							•	
				1				
				•				
·								
				.*		-		
							`	
			A					
		,						
		•						

9.12 CBI	Describe the engineering controls that you use to reduce or eliminate worker exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area.  None								
[_]	Process type Batch - Polyurethane Polymerization								
	Work area	• • • • • • • • • • • • • • • • • • • •		1					
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded				
	Ventilation:								
	Local exhaust			·	•				
	General dilution				- '				
	Other (specify)	,							
	Vessel emission controls								
	Mechanical loading or packaging equipment								
	Other (specify)								
		:							
*	Not aware that any engineering	controls are	needed						
			•						
				•					

13	Describe all equipment or process modifications you have meaning to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modified the percentage reduction in exposure that resulted. Photocomplete it separately for each process type and work area.	tion of worker exposure to fication described, state ocopy this question and
[		
_1	Process type Batch - Polyurethane Polymerizat	ion
	Work area	1
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	,	•
		•
	No Modifications	
		·
		•

9.14	in each work area	onal protective and safety equing in order to reduce or eliminates on the complete	ate their exposure to the	listed
CBI	_	Potob Polemania		
[_]		Batch - Polyurethane		······································
	Work area	•••••••••••	1	
		Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Wear or Use (Y/N)  V	

CBI	Process type Batch - Polyurethane Polymerization							
'	Work Area	Respirator Type	Average _Usage <sup>1</sup>	Fit Tested (Y/N)	Type of Fit Test <sup>2</sup>	Frequency of Fit Tests (per year)		
						•		
	D = Once a E = Other  2Use the for QL = Quali QT = Quant	(specify)	ignate the type	of fit tes	st: -			
		•						

9.19 CBI	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.							
[_]	Process type Batch - Polyurethane Polymerization							
	Work area	••••••	• • • • • • • • • • • • • • • • • • • •	1				
	Area is not restri	cted						
9.20	Indicate (X) how often you leaks or spills of the list separately for each process	ted substance.	Photocopy thi	s question an	d complete it			
	Process type E	Batch - Polyuret	area. hane Polymeri					
	Process type E	Batch - Polyuret	area. hane Polymeri	zation	More Than 4			
	Process type E	Batch - Polyuret	area. hane Polymeri 1-2 Times	zation  1  3-4 Times	More Than 4			
	Process type E  Work area  Housekeeping Tasks	Batch - Polyuret	area. hane Polymeri 1-2 Times	zation  1  3-4 Times	More Than 4			
1	Process type E  Work area  Housekeeping Tasks  Sweeping	Batch - Polyuret	area. hane Polymeri 1-2 Times	zation  1  3-4 Times				
1	Process type E  Work area  Housekeeping Tasks  Sweeping  Vacuuming	Batch - Polyuret	area. hane Polymeri 1-2 Times	zation  1  3-4 Times	More Than 4			

9\21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance:
\	Routine exposure
,	Yes
	No
	Emergency exposure
	Yes
	If yes, where are copies of the plan maintained?
\	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes
	No 2
	If yes, where are copies of the plan maintained?
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes
	No 2
9.23	// / / / / / / / / / / / / / / / / / /
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist \ 1
	Insurance carrier
	OSHA consultant
	Other (spedify)
1-1	Mark (X) this box if you attach a continuation sheet.
·—,	man (m) and com at Not managed a companion amount

#### SECTION 10 ENVIRONMENTAL RELEASE

#### General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A	GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area
	Residential area
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area 6
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility 8
	Within 1 mile of a non-navigable waterway
	Other (specify)

	Specify the exact location of your facilities located) in terms of latitude and long (UTM) coordinates.	gitude or Univ	ersal Transver	se Mercader
	Latitude	····· _	160.3	3. V
	Longitude		35.	υ, <u>ν</u>
	UTM coordinates Zone	, Northi	ng, E	asting
10.03	If you monitor meteorological conditions the following information.	in the vicin	ty of your fac	ility, provi
	Average annual precipitation	•••••		inches/
	Predominant wind direction			
		_		<del></del>
10.04	Indicate the depth to groundwater below	your failing		<del>\</del>
`	1 and 9-faughater peron ?	out lactify.		
	Depth to groundwater	•		
	Depth to groundwater	•		meters
	Depth to groundwater	•		meters
10.05	For each on-site activity listed, indicate		l routine rele	
10.05 CBI	For each on-site activity listed, indicate listed substance to the environment. (Rey, N, and NA.)		l routine rele structions for	
CBI	For each on-site activity listed, indicate listed substance to the environment. (Re	e (Y/N/NA) al	structions for	ases of the a definition
	For each on-site activity listed, indicate listed substance to the environment. (Re	e (Y/N/NA) al	l routine rele structions for ronmental Rele Vater	ases of the a definition
CBI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)	e (Y/N/NA) alefer to the in	structions for ronmental Rele	ases of the a definition
CBI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)  On-Site Activity	e (Y/N/NA) allefer to the in  Envi	structions for ronmental Rele	ases of the a definition
BI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)  On-Site Activity  Manufacturing	e (Y/N/NA) alefer to the in  Envi Air  NA	ronmental Rele  Vater  NA	ases of the a definition ase Land
BI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing	e (Y/N/NA) alefer to the in  Envi Air  NA  NA	ronmental Rele Vater NA	ases of the a definition ase  Land  NA  NA
BI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing	e (Y/N/NA) alefer to the in  Envi Air  NA  NA	ronmental Rele Vater  NA  NA	ases of the a definition ase  Land  NA  NA  NA  NA
CBI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used	e (Y/N/NA) alefer to the in  Envi Air NA NA NA NA NA NA	ronmental Rele Vater NA NA NA NA NA	ases of the a definition hase  Land  NA  NA  NA  NA  NA
CBI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage	e (Y/N/NA) allefer to the in  Envi Air NA NA NA NA NA	ronmental Rele Vater NA NA NA NA	ases of the a definition ase  Land  NA  NA  NA  NA
CBI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage  Disposal	e (Y/N/NA) allefer to the in  Envi Air NA	structions for ronmental Rele Vater NA NA N NA N NA N	ases of the a definition ase  Land  NA  NA  NA  NA  NA  NA  NA  NA  NA  N
CBI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage  Disposal	e (Y/N/NA) allefer to the in  Envi Air NA	structions for ronmental Rele Vater NA NA N NA N NA N	ases of the a definition ase  Land  NA  NA  NA  NA  NA  NA  NA  NA  NA  N
CBI	For each on-site activity listed, indicate listed substance to the environment. (Ref. Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used  Product or residual storage  Disposal	e (Y/N/NA) allefer to the in  Envi Air NA	structions for ronmental Rele Vater NA NA N NA N NA N	ases of the a definition ase  Land  NA  NA  NA  NA  NA  NA  NA  NA  NA  N

10.06 <u>CBI</u>	Provide the following information for the listed s of precision for each item. (Refer to the instruction example.)	ubstance and s tions for furt	pecify the level her explanation	and
[_]	Quantity discharged to the air	NA	kg/yr <u>+</u>	%
	Quantity discharged in wastewaters	NA	kg/yr <u>+</u>	%
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr ±	_ %
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u>	<u> </u>
				•
		-		

CBI	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.						
[_]	Process type Batch - Polyurethane Polymerization						
	Stream ID Code	NA - Essential a closed system <u>Control Technology</u>	Percent Efficiency				
			•				
			····				
			-				
	,						

10.09 <u>BI</u>	substance in residual tre source. Do sources (e.g	int Source Emissions Identify each emission point source containing the liste bstance in terms of a Stream ID Code as identified in your process block or sidual treatment block flow diagram(s), and provide a description of each point urce. Do not include raw material and product storage vents, or fugitive emissi urces (e.g., equipment leaks). Photocopy this question and complete it separate r each process type.  Batch - Polyurethane Polymerization				
	Process type	·····	batch = Folyurethan	e POISMETIZAC.		
	Point Source ID Code		Descri	ntion of Emis	sion Point Sourc	٠ <u>ـ</u>
			NA NA	peron or bairs	31011 TOTHE BOULE	. ~
				***		
						•
						· · · · · · · · · · · · · · · · · · ·
			-			
,						
,						
	<del></del>		-			
			<i>:</i>		-	
					,	
					·	
	٠					

8

this

you

attach

		Stack	NA			
Point Source ID Code	Stack Height(m)	Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m) <sup>1</sup>	Building Width(m) <sup>2</sup>
			• .			
Height	of attached	or adjacent	building			
Width o	f attached	or adjacent	building			
Use the	following	codes to des	signate vent	type:		
H = Hor	izontal					
V = Ver	tical					

:BI	distribution for each Point Source ID	particulate form, indicate the particle size Code identified in question 10.09. it separately for each emission point source.				
[_]	NA Point source ID code					
	Size Range (microns)	Mass Fraction (% $\pm$ % precision)				
	< 1					
	≥ 1 to < 10	1				
	≥ 10 to < 30	:				
	≥ 30 to < 50	•				
	≥ 50 to < 100					
	≥ 100 to < 500					
	≥ 500					
	,	Total = 100%				
		·				
		•				
	•					
	·					

10.13	Equipment Leaks Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately for each process type.									
[ ]										
1	Percentage of time per year	Process type Batch - Polyurethane Polymerization  Percentage of time per year that the listed substance is exposed to this process type								
			of Compos of Lister	nents in : d Substan	Service by	Veight loss Stream	am _ /			
	Equipment Type	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater			
	Pump seals <sup>1</sup>		3 10%	11-25%	20-13%	70-99%	than 99%			
	Packed	$\nearrow$								
	Mechanical	<u> </u>								
	Double mechanical <sup>2</sup>									
	Compressor seals <sup>1</sup>	<del></del>								
	Flanges						-			
	Valves				<del></del>					
	Gas <sup>3</sup>									
	Liquid									
	Pressure relief devices (Gas or vapor only)									
	Sample connections									
	Gas									
	Liquid				<del></del>	•				
	Open-ended lines <sup>5</sup> (e.g., purge, vent)				· · · · · · · · · · · · · · · · · · ·					
	Gas									
	Liquid			-						
	<sup>1</sup> List the number of pump ar compressors	nd compressor	seals,	rather th	an the nu	mber of p	umps or			
10.13	continued on next page					•				

10.13	(continued)							
	<sup>2</sup> If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively							
	<ul> <li>Conditions existing in the valve during normal operation</li> <li>Report all pressure relief devices in service, including those equipped with control devices</li> <li>Lines closed during normal operation that would be used during maintenance operations</li> </ul>							
10.14 <u>CBI</u>	Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.							
[_]	a. NA	b.	c.	d.				
	Number of Pressure Relief Devices	Percent Chemical in Vessel	Control Device	Estimated Control Efficiency <sup>2</sup>				
		-						
	Refer to the table in que heading entitled "Number Substance" (e.g., <5%, 5-	of Components in Ser						
	<sup>2</sup> The EPA assigns a control vith rupture discs under efficiency of 98 percent conditions	normal operating con-	ditions. The EPA	assigns a control				
[_]	Mark (X) this box if you a	ittach a continuation	sheet.					

10.15	place, complete the	following table reg	ction and repair program is in se leak detection and repair it separately for each process			
CBI						
[_]	Process type	Batch - Polyurethane Polymerization				
		Leak Detection Concentration (ppm or mg/m³) Measured at	-	Frequency of Leak	Repairs Initiated	Repairs Completed
	Equipment Type	Inches from Source	Detection Device	Detection	(days after detection)	(days after
	Pump seals Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas Liquid Pressure relief devices (gas or vapor only) Sample connections Gas Liquid Open-ended lines Gas Liquid					
	1 Use the following c POVA = Portable org FPM = Fixed point m O = Other (specify)  Mark (X) this box if	anic vapor analyze onitoring	r	· · · · · · · · · · · · · · · · · · ·		

CBI		<ul> <li>Complete the following table by providing the information on es</li> <li>sel containing the listed substance as identified in your process</li> </ul>
(	Vessel Vessel Floating Composition Throughput Filling Filling	Operat- Vessel ing Inner Vessel Vessel Vessel Design Vent Control I Diameter Height Volume Emission Flow Diameter Efficiency (m) (m) (l) Controls Rate (cm) (%) Est
	Use the following codes to designate vessel type:  F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground  Indicate weight percent of the listed substance. Include	<sup>2</sup> Use the following codes to designate floating roof seals:  MS1 = Mechanical shoe, primary  MS2 = Shoe-mounted secondary  MS2R = Rim-mounted, secondary  LM1 = Liquid-mounted resilient filled seal, primary  LM2 = Rim-mounted shield  LMW = Weather shield  VM1 = Vapor mounted resilient filled seal, primary  VM2 = Rim-mounted secondary  VMW = Weather shield  the total volatile organic content in parenthesis

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	-			
2	<del> </del>	-		
3			-	
4				
5	-	-	-	•
6				

10.24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
_1					
2		<del>\</del>			<del></del>
4					<del></del>
5					
6			<del>\</del>	<del></del>	

# GOODYEAR COMMERCIAL TIRE & SERVICE CENTERS

A DIVISION OF

THE GOODYEAR TIRE & RUBBER COMPANY

3221 Vassar N.E.

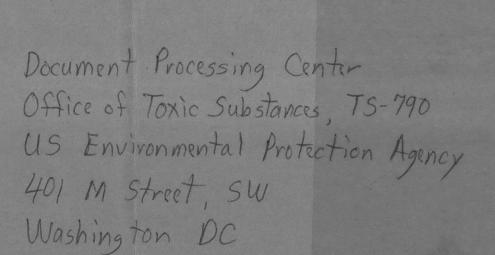
ALBUQUERQUE, NM 87107



## **CERTIFIED**

P 130 882 098

MAIL



20460

ATTN: CAIR Reporting office